



**Hospital's Training specification
2024/2023
Clinical Pharmacy Program
Faculty of Pharmacy
Mansoura University**



بكالوريوس الصيدلة (كلينيكال)

Specification of Hospital's Training

Academic year: 2024/2023

Approved from Faculty Council No. (775) 24/10/2023



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University	Mansoura
Faculty	Pharmacy

A-Basic Information:

1	Program Title	Clinical Pharmacy (Unified and modified bylaw)
2	Program Type	Single
4	Language study	English

تدريب المستشفيات:

- ❖ على الطالب أن يكمل فترة تدريب عملي بإجمالي عدد 100 ساعة معتمدة في إحدى المستشفيات التي يقرها مجلس الكلية وذلك تحت إشراف عضو هيئة مساعدة و يتم التدريب خلال أجازات منتصف العام و الاجازات الصيفية لسنوات الدراسة بعد نهاية المستوى الرابع.
- ❖ لا يمنح الطالب درجة بكالوريوس الصيدلة إلا بعد اجتياز التدريب في إحدى المستشفيات بنجاح .

ويعتبر الطالب مجتازا لهذا التدريب بنجاح إذا أداه على وجه مرض من خلال:

- تقرير السادة الصيادلة بالمستشفيات التي اتم فيها الطالب فترة التدريب ، حيث يقوم صيدلي المستشفى باستيفاء النموذج الخاص والذي يتضمن تقييم التدريب من حيث المهارات السلوكية ومهارات التواصل ومهارات استخدام الوقت والمهارات المهنية التي اكتسبها الطالب خلال فترة التدريب .
- تقرير بنسبة الغياب لكل طالب.



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B- Professional information

1- Hospital's Training Aims:

- Provide comprehensive pharmaceutical care to patients.
- Provide operational support in the Critical Care positions and Central Pharmacy as determined by departmental need.
- Promote and demonstrate rational, cost-effective drug therapy.
- Design appropriate pharmaceutical plans for patients based on their clinical scenarios.
- Develop and implement drug therapy monitoring plans for patients with specific emphasis on achieving definite clinical outcomes.
- Apply knowledge of chemical, physical, and pharmaceutical properties of drugs^[17] as they related to drug disposition, stability and handling when evaluating therapeutic regimens.

2- Hospital's Training key elements

Upon completing the course, the student will be able to dominate the following key elements

DOMAIN 1: FUNDAMENTAL KNOWLEDGE

Program K. element no.	Hospital's Training K. element no.	Hospital's Training K. element
1-1-1	1-1-1-1	Demonstrate understanding of etiology, symptoms, signs, diagnostic tests of common diseases and their appropriate treatment.
1-1-2	1-1-2-1	Use the proper pharmaceutical and medical terminology, abbreviations and symbols in pharmacy practice and recall scientific names of drugs.
1-1-4	1-1-4-1	Utilize knowledge from fundamental sciences to explain drugs' actions and evaluate their appropriateness, effectiveness, and safety in clinical use.
1-1-5	1-1-5-1	Recall information from fundamental sciences to solve therapeutic problems.
1-1-6	1-1-6-1	Make use of scientific literature, collect and interpret information to enhance professional decision.
1-1-7	1-1-7-1	Recognize and analyze newly emerging issues influencing patient health care.



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DOMAIN 2: PROFESSIONAL AND ETHICAL PRACTICE

Program K. element no.	Hospital's Training K. element no.	Hospital's Training K. element
2-1-1	2-1-1-1	Practice responsibilities and authorities in compliance with the legal and professional structure and role of all members of the health care professional team.
2-1-2	2-1-2-1	Apply the principles of professional codes of ethics, and protect the privacy and confidentiality of the patient.
2-1-3	2-1-3-1	Recognize and maintain appropriate professional boundaries and accept the conditions of referral to or guidance from other members of the health care team.
2-2-2	2-2-2-1	Apply the basic requirements of quality management system in products considering various incompatibilities.
2-2-4	2-2-4-1	Practice principles of pharmaceutical calculations, pharmacokinetics, bio-pharmaceutics and their applications in dose modification and pharmacy practice.
2-3-1	2-3-1-1	Handle, identify, and dispose pharmaceutical products used in the pharmaceutical field.
2-4-2	2-4-2-1	Show understanding of basic life support measures required to save patient's life in emergencies.
2-4-3	2-4-3-1	Deal with any identified medicine-related and pharmaceutical care challenge in a professional way.
2-5-2	2-5-2-1	Collect, interpret and assess relevant, necessary evidence-based information about a patient's health-related care needs.



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DOMAIN 3: PHARMACEUTICAL CARE

Program K. element no.	Hospital's Training K. element no.	Hospital's Training K. element
3-1-4	3-1-4-1	Select the appropriate pharmaco-therapeutic approaches based on etiology, epidemiology, pathophysiology, laboratory diagnosis, and clinical features of infections/diseases.
3-2-1	3-2-1-1	Summarize the pharmacological properties of drugs including mechanisms of action, therapeutic uses, dosage, contra-indications, adverse reactions and drug interactions.
3-2-2	3-2-2-1	Utilize the principles of clinical pharmacology and pharmacovigilance to achieve rational use of medicines
3-2-4	3-2-4-1	Provide information about toxic profiles of medicines including identification, symptoms, and management control.
3-2-5	3-2-5-1	Provide information for and counsel patients, other health care professionals, about safe and proper use of medicines including OTC preparations and medical devices.
3-2-6	3-2-6-1	Advice patients on social health hazards of drug misuse and abuse.



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DOMAIN 4: PERSONAL PRACTICE

Program K. element no.	Hospital's Training K. element no.	Hospital's Training K. element
4-1-1	4-1-1-1	Show responsibility for team performance and peer evaluation of other team members, and express time management skills.
4-1-2	4-1-2-1	Handle and analyze clinical data, identify and solve problems, and work autonomously and effectively in a team.
4-2-1	4-2-1-1	Communicate efficiently in verbal, non-verbal, and in writing with other professional health care team, patients, and communities.
4-3-2	4-3-2-1	Apply self-learning needed for continuous professional development.

Hospital's Training contents: -

Topics	Weeks/ hr.
Focus on the role of the pharmacist in providing appropriate health care to the patient inside and outside hospitals by following up his individualized drug system for him/her after studying the principles of clinical drug kinetics and their applications in treatment in various disease cases and finding appropriate treatment regimens in cooperation with the physician, with resultant improvement in the health care services offered for the patients and a paralleled reduced risks of drug interactions.	100 hr.



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Teaching and learning methods -

Clinical rotation	fundamental knowledge	professional and ethical practice	pharmaceutical care	personal practice
Mansour University Children's hospital	1-1-1-1/1-1-2-1/1-1-4-1/1-1-5-1/1-1-6-1/1-1-7-1	2-1-1-1/2-1-2-1/2-1-3-1/2-2-2-1/2-2-4-1/2-3-1-1/2-3-2-1/2-4-3-1/2-5-2-1	3-1-4-1/3-2-1-1/3-2-2-1/3-2-4-1/3-2-5-1/3-2-6-1	4-1-1-1/4-1-2-1/4-2-1-1/4-2-2-1/4-3-2-1
Mansour University Oncology Centre	1-1-1-1/1-1-2-1/1-1-4-1/1-1-5-1/1-1-6-1/1-1-7-1	2-1-1-1/2-1-2-1/2-1-3-1/2-2-2-1/2-2-4-1/2-3-1-1/2-3-2-1/2-4-3-1/2-5-2-1	3-1-4-1/3-2-1-1/3-2-2-1/3-2-4-1/3-2-5-1/3-2-6-1	4-1-1-1/4-1-2-1/4-2-1-1/4-2-2-1/4-3-2-1
Mansoura International Hospital	1-1-1-1/1-1-2-1/1-1-4-1/1-1-5-1/1-1-6-1/1-1-7-1	2-1-1-1/2-1-2-1/2-1-3-1/2-2-2-1/2-2-4-1/2-3-1-1/2-3-2-1/2-4-3-1/2-5-2-1	3-1-4-1/3-2-1-1/3-2-2-1/3-2-4-1/3-2-5-1/3-2-6-1	4-1-1-1/4-1-2-1/4-2-1-1/4-2-2-1/4-3-2-1
Faculty of Medicine Clinical Oncology	1-1-1-1/1-1-2-1/1-1-4-1/1-1-5-1/1-1-6-1/1-1-7-1	2-1-1-1/2-1-2-1/2-1-3-1/2-2-2-1/2-2-4-1/2-3-1-1/2-3-2-1/2-4-3-1/2-5-2-1	3-1-4-1/3-2-1-1/3-2-2-1/3-2-4-1/3-2-5-1/3-2-6-1	4-1-1-1/4-1-2-1/4-2-1-1/4-2-2-1/4-3-2-1
Mansour University Emergency Hospital	1-1-1-1/1-1-2-1/1-1-4-1/1-1-5-1/1-1-6-1/1-1-7-1	2-1-1-1/2-1-2-1/2-1-3-1/2-2-2-1/2-2-4-1/2-3-1-1/2-3-2-1/2-4-3-1/2-5-2-1	3-1-4-1/3-2-1-1/3-2-2-1/3-2-4-1/3-2-5-1/3-2-6-1	4-1-1-1/4-1-2-1/4-2-1-1/4-2-2-1/4-3-2-1
Faculty of Nursing-Skill lab	-	2-1-2-1/2-4-2-1/2-5-2-1	3-2-4-1/3-2-6-1	4-1-2-1/4-2-1-1/4-3-2-1

3-Academic standards

a- External References for standards (Benchmarks) (لجنة القطاع المختصة)

External References for Standards (Benchmarks). The faculty is adapting the national academic reference standard for pharmaceutical education.

4- Curriculum Structure and contents

4.a- Program duration	100 hours
4.b- Program structure	100 hours in the field training following the termination of the fourth year exams
4.c- Number of hours	Not less than 5 hours per day for at least 20 days according to a schedule.



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5- Program admission requirements :

Rules established by the Faculty Council for bachelor of pharmacy credit hour system (Clinical Pharmacy).

6- Regulations for progression and program completion:

6.1- Rules established by Faculty Council.

6.2- Bachelor of pharmacy (Clinical) credit hour system.

6.3- Hospital's training can be accomplished in either one of the hospitals of Mansoura University, Ministry of Health or any of private hospitals that apply clinical pharmacy.

6.4- The summer training can also take place outside the Arab Republic of Egypt for those students who are willing to take it but on the student's personal expenses.

7- Evaluation (assessment) of program:

1- Assistant lecturers and demonstrators (Supervisors):

Each supervisor is intended to supervise 15 students.

- The student must complete 100 hours training in the establishment where he is intended to take his hospital training course, the advisors visit the students at their training locations and attendance schedule is filled by the clinical pharmacist responsible for the training.
- Assignments; academic advisors usually give the students assignments (activity portfolio) that they are required to hand over by the end of the training course. The supervisors usually discuss these assignments with the students to assess the extent of benefit they gained along the training course.
- The supervisor of the training shall complete the form which includes the evaluation of training in terms of behavioral skills, communication skills, time use skills and professional skills acquired by the student during the training period.
- Each student will submit a report on the duration of the training indicating what has been achieved and the extent of benefiting from the training and completing the attached questionnaire

This report is to be evaluated by both:

1- The academic supervisor.

2- The clinical pharmacist.

3- Others



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Assessment (Timing and degree)

- Faculty board and the committee of student affairs.

The student is not to be awarded the degree of Bachelor in Pharmacy (Clinical) until he fulfills the exact specified duration of the training (100 hours)

- The report of the hospital pharmacist where the student completed the training period, where the hospital pharmacist shall complete the form which includes evaluating training in terms of behavioral skills, communication skills, time use skills and professional skills acquired by the student during the training period.

8 - Enhancement and improvement plans:

- ❖ Enhance communications with all stakeholders via email and other new technologies such as social networks
- ❖ Enhance and improve the assessment and evaluation system which permits the continuous improvement of administrative workflow processes. Improved operations, practices and procedure
- ❖ Increase specific training courses related to the field of clinical pharmacy practice
Training courses proposed:

- Pharmacy Practice
- First Aid
- Rational use of antibiotics
- Pharmacotherapeutics
- Clinical pharmacology
- Geriatrics
- Clinical pharmacy
- Ethics, Leadership and decision making
- Communication and negotiation skills

Training Coordinator

Dr. Mahmoud Samaha

Program Director

Associate professor Marwa Salah
El-din El-Dahan

**Vice Dean
for Student Affairs**

Prof. Rasha Fathy Barwa

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Prof. Manal Mohammed Eid